

Akulon® K222-D

PA₆

Low Viscosity

Print Date: 2016-04-01

Properties	Typical Data	Unit	Test Method
Mechanical properties	dry / cond		
Tensile modulus	3800/1200	MPa	ISO 527-1/-2
Yield stress	95/55	MPa	ISO 527-1/-2
Yield strain	3.5/25	%	ISO 527-1/-2
Nominal strain at break	15/>50	%	ISO 527-1/-2
Flexural modulus	2600/-	MPa	ISO 178
Flexural strength	100/-	MPa	ISO 178
Charpy impact strength (+23°C)	N/N	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	N/N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8/35	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4/4	kJ/m²	ISO 179/1eA
Thermal properties	dry / cond		
Melting temperature (10°C/min)	220/*	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	60/*	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	150/*	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.9/*	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.9/*	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-2/*	class	IEC 60695-11-10
Thickness tested	1.5/*	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-2/*	class	IEC 60695-11-10
Thickness tested	3/*	mm	IEC 60695-11-10

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Oxygen index	26/*	%	ISO 4589-1/-2
Electrical properties	dry / cond		
Relative permittivity (100Hz)	3.2/14	-	IEC 60250
Relative permittivity (1 MHz)	3/4.5	-	IEC 60250
Dissipation factor (100 Hz)	50/3000	E-4	IEC 60250
Dissipation factor (1 MHz)	150/1200	E-4	IEC 60250
Volume resistivity	1E13/1E10	Ohm*m	IEC 60093
Surface resistivity	*/1E14	Ohm	IEC 60093
Electric strength	25/20	kV/mm	IEC 60243-1
Comparative tracking index	*/600	-	IEC 60112
Other properties	dry / cond		
Water absorption	9/*	%	Sim. to ISO 62
Humidity absorption	2.5/*	%	Sim. to ISO 62
Density	1130/-	kg/m³	ISO 1183

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